

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 2-14
Unit M Sec. 14 Twp. 29 Rge. 6 Pay Zone: From 5393 To 6270
Casing: OD 7" WT. 23 Set At 5397 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6191
Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 11-17-56 To 11-25-56 Date S.I.P. Measured 3-27-56
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 517 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 517 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 984 psia (j)
Wellhead tubing shut-in pressure (Dwt) 967 psig + 12 = 979 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 979 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 490 psia (n)

FLOW RATE CALCULATION

Q = 494 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 494 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.0476)^{.75} = 1.0355 =$ 512 MCF/day.

SUMMARY

P_c = 979 psia
Q = 494 Mcf/day
P_w = 522 psia
P_d = 490 psia
D = 512 Mcf/day

Company Pacific Northwest Pipeline Corporation
By Donald G. Adams
Title Well Test Engineer
Witnessed by _____
Company _____

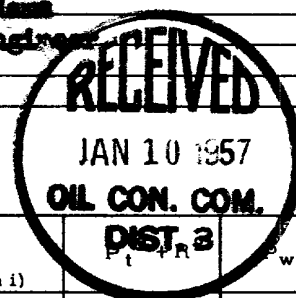
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² R ²	P _w
<u>4024</u>	<u>.254</u>	<u>21,576,</u>	<u>5480</u>	<u>267289</u>	<u>272769</u>	<u>522</u>

3-N.M.O.C.C.-Aztec
2-Phillips Petroleum - Wayne Smith
L. G. Truby
1-File

OK



1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the Secretary.

3. The third part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the Treasurer.

4. The fourth part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the Chairman.

5. The fifth part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the Vice-Chairman.

6. The sixth part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the Secretary.

7. The seventh part of the document is a list of the names and addresses of the members of the committee who have been elected to the office of the Treasurer.